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Vector Autoregression ( VAR)

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## **Abstract**

## Foreign Direct Investment And Its Impact On Economic Growth In Jordan During (1980-2008) Muhammad Al Rawashdeh Mu'tah University

This study aimed at identify the impact of foreign direct investment (FDI) on economic growth in Jordan during the period (1980-2008) where the researcher test the objectives of the study, which centered on the statement of the impact of FDI in GDP in Jordan, and identify the impact of trade liberalization and its role in creating an appropriate environment to attract foreign direct investment into Jordan.

The researcher adopted the methodology of Vector Auto Regression (VAR), which includes the following standard tests: unit root test to examine the stability, Granger causality test, analysis of variance Decomposition, Johansen test, responsive function, After the testing results indicated the following:

- 1. The results of the test of causation that the foreign investment and trade liberalization, a positive effect on the rate of economic growth in Jordan.
- 2. The results of the response function that there is positive impact of foreign investment and trade openness on economic growth in Jordan, and these findings are consistent with many previous studies on the impact of foreign investment and trade openness on economic growth.

The study recommended the following:

- 1 the need for work on creating a comprehensive national strategy to attract foreign investments to Jordan, especially in the industrial sector.
- 2 Focus on foreign investments that include job opportunities for Jordanian citizens.
- 3 Continue the program of trade openness as a great ability in the promotion of foreign investments.
- 4 The need to focus on items that SUPPORT Jordan to gain competitive advantage and maintaining direct foreign investment.

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74,448	2002
436,113	2003
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1761,10	377,20	38,19	89,49	279.91 976,32	
406,72				259,01 147,71	
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	A -	7	7	.6
	BBB +	8	8	.7
	BBB -	10	11	.8
	BBB -	10	11	.8
	BB+	11	11	.10
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.FT, Credit Ratings in Emerging, Markets, Issue, 2008: )

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2008 2007 (134)(131)49 **1**48 46 <u>↓</u>47 :Basic Requirements .I **1**27 32 Institutions .1 <u>↓</u>44 42 Infrastructure .2 Macroeconomic Stability 100 .3 <u>√</u>56 53 Health and Primary Education .4 **1**63 64 :Efficiency Enhancers II. **1**42 47 Higher Education and training .5 **1**44 48 Goods market efficiency .6 个93 94 Labor Market Efficiency .7 **1**48 55 Financial Market Sophistication .8 个57 63 Technological Readiness .9 ₩88 Market Size 83 .10 **1**47 54 **Innovation & Sophistication** III. **1**47 58 **Business Sophistication** .11 个51 55 Innovation .12

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## 2009-2008 2008-2007

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17 178 ) 2008 2007 5 88 .( 10

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2007	2008	
78	80	.1
77	68	.2
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80	88	.4
116	125	.5
161	146	.6
38	23	.7
154	143	.8
130	137	.9
-	_	.10
145	14	.11
55	49	.12
127	117	.13
-	_	.14
46	40	.15
86	85	.16
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165	126	.18
115	129	.19
148	157	.20
98	113	.21
17	17	

, www.weforum.org, www.doingbusiness.org : ) .(www.atkearney.com

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79	136	33	7	50	48	3	40	47	36	.1
67	99	99	8	19	68	72	39	85	121	.2
59	110	104	5	64	97	15	26	130	107	.3
139	144	24	4	107	115	8	65	38	158	.4
87	128	59	19	107	84	109	45	71	133	.5
117	121	83	33	83	48	92	53	113	132	.6
30	80	28	148	146	97	66	113	96	68	.7
83	41	128	84	122	158	44	63	35	175	.8
178	125	77	22	33	68	118	103	132	166	.9
45	117	114	157	64	115	156	118	108	131	.10
125	145	26	150	83	115	101	108	163	55	.11
60	114	67	132	158	135	102	165	88	51	.12
77	171	127	98	107	158	89	126	86	169	.13
178	150	157	37	107	135	40	60	104	164	.14
178	143	143	60	141	135	32	140	131	95	.15
126	159	66	51	173	135	131	130	92	165	.16
173	89	152	171	141	115	52	117	142	167	.17
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Inward FDI Perform	ance Index	Ranking	Outward FDI Performance Index Ranking			
<b>Economy</b>	2006	2007	<b>Economy</b>	2006	2007	
Hong Kong, China	2	1	Luxembourg	3	1	
Bulgaria	3	2	Iceland	1	2	
Iceland	4	3	Hong Kong,	2	3	
			China			
Malta	5	4	Switzerland	4	4	
Bahamas	8	5	Panama	5	5	
Jordan	7	6	Belgium	7	6	
Singapore	6	7	Netherlands	6	7	
Estonia	9	8	Kuwait	12	8	
Georgia	15	9	Bahrain	11	9	
Lebanon	13	10	Singapore	8	10	
Guyana	20	11	Ireland	9	11	
Bahrain	12	12	Sweden	13	12	
Belgium	10	13	Spain	14	13	
Gambia	11	14	France	18	14	
Panama	16	15	Estonia	17	15	
Mongolia	19	16	United Kingdom	21	16	
Tajikistan	18	17	Israel	15	17	
Cyprus	24	18	Norway	16	18	
Moldova, Republic	27	19	Austria	23	19	
of						
Egypt	31	20	Denmark	33	20	

Source: UNCTAD.

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## (13)

## (2006-1988)

Under		Above		
<b>Performers</b>	<b>Below Potential</b>	Potential	Front Runners	
				1990-1988
			•	
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		•		
	•		•	2002 2000
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		•		
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			·	2006-2002
			. 2007 .UN	:

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:(Mathur, 1992)

:(Haddad and Harrison, 1993)

:(Blomström, and Kokko, 1996)

(1989 - 1976)

:(Bisat, El – Erian, and Helbling, 1997)

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(1996 - 1971) (1996 - 1986) (1985 - 1974)

Solow

:(Richardson, 1997)

:(Aitken, Hanson, and Harrison, 1997)

.(1989 – 1976)

:(Hong, 1997)

.(1990-1970)

## :(Borensztein, De Gregorio, and Lee, 1998)

.

$$g_{it} = \alpha_0 + \alpha_1 FDI_{it} + \alpha_2 + FDI_{it} H_{it} + \alpha_3 H_{it} + \alpha_4 Y_{i0} + \alpha_5 A_{it} + \epsilon_{it}$$

.t i  $:g_{it}$ 

t i:FDI<sub>it</sub>

 $H_{it}$ 

:  $Y_{i0}$ 

(69) (1989-1980) (1979-1970)

:(De Mello, Luiz, **1999**)

(OECD) (Non-OECD)

:(2000 , )

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:(Manhal Shotar Basher Abdulrazag, 2003)

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LnY = \alpha_0 + \alpha_1 LnL + \alpha_2 LnK + \alpha_3 LnFDI + \alpha_4 LnX + \epsilon
.(1997
                                                                                 :Y
                                       .(
                                                                                 :L
                                                                                 :K
                                                                                 :FDI
                                                                                 :X
     (2000-1980)
                                                     :(Alfaro, 2006)
 (1999 - 1981)
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1988 (15) (83) 2002

· :(2005 , )

 $FDI = \alpha_0 + \alpha_1 N + \alpha_2 GDP + \alpha_3 GI + \alpha_4 GP + \alpha_5 DP + \alpha_6 DB + \epsilon$ :GDP :GI :DP :GP :DB :N FDI :N :GDP :GP :GI :DB :DP :(2005, 10) (2003 - 1995)Dynamic Generalized .Panel Data

:(QMM) method of Moments

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\begin{split} G_{it} = a + B_1 \ FDI_{it} + B_2 (FDI^* \ H)_{it} + B_3 H + BZ_{it} + U_{it} \\ i = 1, \ldots, N \ t = 1, \ldots, N \end{split} \\ : \\ : N \\ : T_i \\ : U \\ : Z \\ H \ FDI \\ : FDI^* \ (H) \end{split}
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2004 1970

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2003 1976 (VAR)

GDP = f(K, L, FDI, M)  $L \qquad K \qquad GDP$   $. \qquad M \qquad FDI$  (2008, )  $(QIZ) \ Qualified \ Industrial \ Zones$   $"Jordan-United \ States \ Free \ Trade \ Agreement" \ (JUSFTA)$   $Export-Lead) \qquad - \qquad " \qquad .$   $(2005-1990) \qquad \qquad (Growth \ Hypothesis)$ 

:(2009 , )

Simple regression

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Vector (VAR)

.Auto Regression

sims (1980) Vector Autoregression (VAR)

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VAR

VAR

endogenous

Ordinary Least Squares (OLS)

.consistent

policy analysis VAR

random shocks ( )

- VAR

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orthogonal innovations innovations

: VAR  $y_t = A_1 y_{t-1} + A_2 y_{t-2} + \dots + A_n y_{t-n} + B x_t + u_t$ :

(Vector of endogenous variables)  $= y_t$ 

 $y_t = (g FDI_t)'$ 

. B, Ai, i=1,...,n

(Vector of exogenous variables)  $:x_t$ 

.

 $u_t = (e_{1t} e_{2t})' : u_t$ 

. :*t* 

. :*n* 

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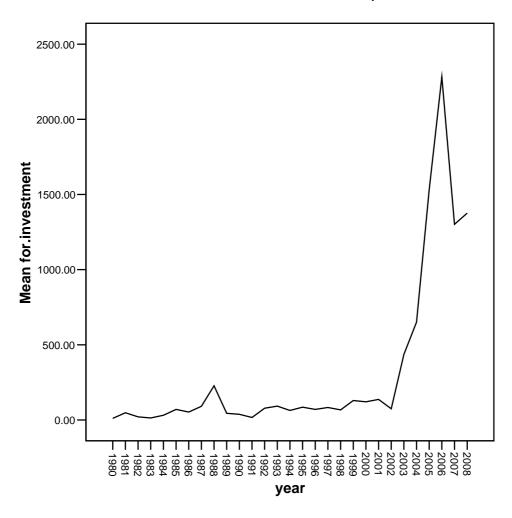
.Variance decomposition .3

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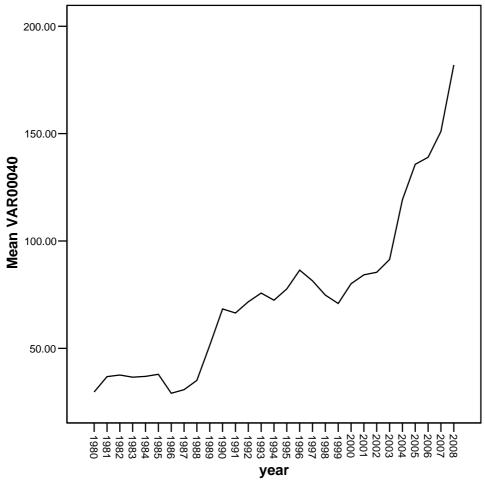
(1) 1980

2002 1989

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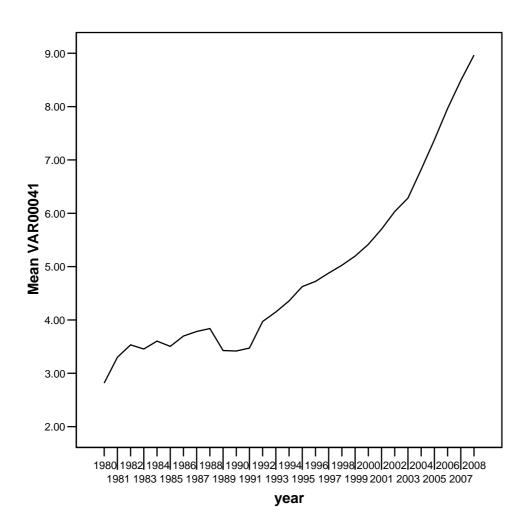


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1986 1985

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: Eviews

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(2) (ADF) –

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	$\mathbf{F}$		$\mathbf{F}$		$\mathbf{F}$	
				2.97	3.00	
2.97	5.08			2.97	1.65	
		2.97	3.95	2.97	0.89	

(14)

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35.65	29.68	24.23	0.41
20.04	15.41	10.35	0.25
6.65	3.76	2.85	0.10
	20.04	20.04 15.41	20.04 15.41 10.35

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Growth = 8.08-0.184 open + 0.0024 foreigninv

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Eviews (17)

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0.000000	0.000000	100.0000	1
0.182034	1.158711	98.65925	2
0.352982	7.997819	91.64920	3
1.208763	15.85652	82.93471	4
1.477753	22.31327	76.20897	5
1.237416	27.92110	70.84148	6
0.930473	32.70889	66.36064	7
0.689614	36.20973	63.10065	8
0.518711	38.30978	61.17151	9
0.400557	39.32908	60.27036	10

(18)

0.000000	0.000000	100.0000	1
16.23805	4.919265	78.84269	2
21.84520	9.984181	68.17062	3
20.68042	14.36636	64.95321	4
19.73035	18.48763	61.78202	5
18.45316	22.92308	58.62377	6
17.89207	26.84249	55.26544	7
18.06157	29.80542	52.13301	8
18.97669	32.14384	48.87947	9
20.92860	34.03732	45.03408	10

(18)

%19.73 %20.92 %45.03 %61.78

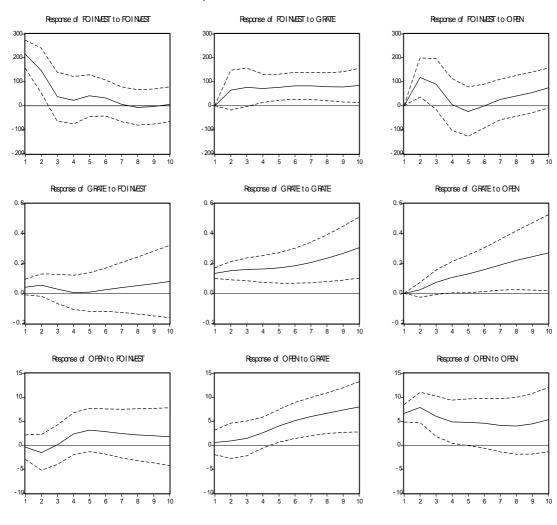
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## Impulse response

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Response to One S.D. Innovations  $\pm$  2 S.E.



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2.817200					10.4	1980
6	2818.1	29.66810972	715,977	120.1		
3.301346			1047,50		47.7	1981
599	3302.2	36.83907698	5	169		
3.533265			1142,49		20.9	1982
644	3534.2	37.57851848	3	185.6		
3.454777			1103,31		13	1983
314	3455.8	36.55882864	0	160.1		
3.603141			1071,34		31.4	1984
148	3604.1	36.96900752	0	261.1		
3.505472			1074.4	255.3		1985
166	3506.5	37.92100385			70.30512	
3.698552			850.2	225.6		1986
169	3699.5	29.07960535			52.77084	
3.784522			915.5	248.8		1987
718	3785.5	30.75683529			91.04878	
3.839814			1022.5	324.8		1988
398	3840.8	35.07862945			227.3779	
3.427579			1230.0	534.1		1989
809	3428.7	51.45098725			43.98264	
3.418297			1725.8	612.3		1990
251	3419.3	68.37949288			37.3524	
3.473315			1710.5	598.6		1991
831	3474.3	66.46230895	22110		16.36047	1000
3.971925			2214.0	633.8		1992
478	3972.8	71.6824406	2452.6		78.18874	1002
4.150142			2453.6	691.3	0.1.0===	1993
952	4151.1	75.76064176	2362.6	<b>702</b> 0	91.97576	1004
4.357147	12.50.1	<b>70.400071</b> 0	2362.6	793.9	<b>(2</b> 04 004	1994
498	4358.1	72.4283518	2590.3	1004.5	62.91891	1995
4.626758	4607.7	77 (0005705	2390.3	1004.5	05.02252	1993
258	4627.7	77.68005705	3043.6	1020.0	85.02252	1996
4.723320	4724.2	06 42206005	3043.0	1039.8	70.2604	1770
447	4724.3	86.43396905	2908.1	1067.2	70.2694	1997
4.879532	1000 5	Q1 45272001	2700.1	1067.2	Q2 64052	1771
5.026629	4880.5	81.45272001	2714.4	1046.4	82.64852	1998
258	5027.6	74.80308696	2,17.7	1040.4	66.64869	1770
5.197032	3047.0	/4.00300070	2635.2	1051.4	00.04009	1999
782	5198.0	70.92343209	2030.2	1031.4	129.1281	
104	3170.0	/0.72343209			127.1201	<u> </u>

5.417740			3259.4	1080.8		2000
729	5418.7	80.09670216			120.7947	
5.703250			3453.7	1352.4		2001
051	5704.2	84.25546089			136.64	
6.033154			3599.2	1556.7		2002
673	6034.1	85.44604829			74.448	
6.285340			4072.0	1675.1		2003
119	6286.3	91.42261744			436.113	
6.821878			5799.2	2334.1		2004
633	6822.8	119.2076567			650.856	
7.377675			7442.9	2570.2		2005
326	7378.6	135.7046052			1531.40	
7.966073				2,929,3	2282.5	2006
855	7967.0	139	8187,725	10		
8.490461				3,183,7	1301.3	2007
757	8491.4	151	9722,194	07		
8.966653				4,383,9	1376.2	2008
102	8967.6	182	11973,902	40		

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